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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/530,656	06/14/2005	Ulrik Mehr	66722-072-7	7353	
25269 7590 · 12/28/2007 DYKEMA GOSSETT PLLC			EXAMINER		
FRANKLIN SQUARE, THIRD FLOOR WEST 1300 I STREET, NW WASHINGTON, DC 20005			LE, HUYEN D		
			ART UNIT	PAPER NUMBER	
		•	2615		
			MAIL DATE	DELIVERY MODE	
			12/28/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Comme		Application No.	Applicant(s)				
		10/530,656	MEHR ET AL.				
	Office Action Summary	Examiner	Art Unit				
		HUYEN D. LE	2615				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	correspondence address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tinuity Trill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1) 又	Responsive to communication(s) filed on 27 Se	entember 2007					
		action is non-final.					
3)							
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	on of Claims						
4)⊠	Claim(s) 1-3 and 5 is/are pending in the applica	ation.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
6)⊠	⊠ Claim(s) <u>1-3 and 5</u> is/are rejected.						
7)	☐ Claim(s) is/are objected to.						
8)	Claim(s) are subject to restriction and/or	election requirement.					
Applicat	on Papers						
9)	The specification is objected to by the Examine	f.	•				
	The drawing(s) filed on is/are: a) ☐ acce		Examiner.				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correcti						
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority ι	ınder 35 U.S.C. § 119						
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage				
	application from the International Bureau	* **	·				
* 5	see the attached detailed Office action for a list o	of the certified copies not receive	d.				
Attachmen							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary					
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P					
	No(s)/Mail Date	6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

2. Claims 1-3 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hwang (U.S. patent 5,357,051).

Regarding claim 1, Hwang teaches layered structure with electric leads (1, 2, 21, 22), and electric signals that are fed along metallic leads being adhered to a layer on the structure (figures 1-4). Hwang further teaches a first lead (21) and a second lead (22) for connecting a first terminal and a second terminal of a component as claimed (figures 1, 5, 6).

As shown in figures 1 and 2, the first and second leads (21, 22) are passed side by side and alternating on the two sides (10, 10a) of the layer (1), and the two leads (21, 22) cross one another at an angle as claimed.

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Hwang does not specifically teach that the leads (21, 22) are connected to an amplifier at one end and to a hearing aid receiver at the other end. However, Hwang does teach a receiver that operatively receives the signal output from a transmitter (figure 1). Further, providing a hearing aid that has a transmitter such as an amplifier and a receiver is known in the art.

Therefore, it would have been obvious to one skilled in the art to provide the printed circuit board (1, 21, 22), as taught by Hwang, for connecting an amplifier at one end and to a receiver in the other end of any electronic or audio devices such as a hearing aid for greater application and for reducing radio frequency interferences between any transmitter such as the amplifier and the receiver.

Regarding claim 2, the leads (21, 22) of Hwang pass in a way that a maximum number of twists as claimed (figures 1-4).

Regarding claim 3, Hwang shows the leads and the through holes as claimed (see figure 1, 7 and 8).

Response to Arguments

3. Applicant's arguments filed 9/27/07 have been fully considered but they are not persuasive.

Responding to the arguments about that Hwang does not mention use in a hearing aid, the examiner has explained in detail in the office action. Further, the Applicant should note that Hwang does teach the first and second conducive strips continuously twisting with each other to form a signal communication loop between a transmitter and a receiver, and providing a hearing aid that has a transmitter such as an amplifier and a receiver is known in the art.

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Therefore, it would have been obvious to one skilled in the art to provide the printed circuit board with the twisted pair of conductive strips, as taught by Hwang, for reducing any interference signals between a transmitter such as an amplifier and a receiver in a hearing aid.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUYEN D. LE whose telephone number is (571) 272-7502. The examiner can normally be reached on 9:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, SINH TRAN can be reached on (571) 272-7564. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HL

December 26, 2007

HUYEN LE PRIMARY EXAMINER